

## ABSTRACT

An object of the present invention is to provide a heater wherein even if a through hole into which lifter pins and the like for supporting a semiconductor wafer will be inserted is made, the temperature in the vicinity of the through hole is not lowered so that the temperature in its heating face is even. The present invention is a ceramic heater comprising a ceramic substrate; and a resistance heating element formed on the surface of the ceramic substrate or inside above-mentioned ceramic substrate, above-mentioned ceramic substrate being equipped with a through hole, wherein the wall face of above-mentioned through hole has a surface roughness of  $R_{\max} = 0.05$  to  $200 \mu\text{m}$  based on JIS B 0601.